Abstract

In a third generation (3G) General Packet Radio Service (GPRS) network, a method, system and Radio Base Station (RBS) for paging a Mobile Station (MS) wherein a portion of the master routing area-cell mapping table related to a particular Radio base Stations (RBS) is downloaded in that RBS. The serving GPRS Support Node (SGSN) initiates a page request and sends it through an IP based network directly to the RBSs, without involving the RNS and the RMCP, via broadcast message, such as for example an IP broadcast message or an IP Multicast Message. Upon receipt of the page request, each RBS decapsulates the received message, extracts the routing area (RA) information, derives the cell list to be paged from the RBS resident routing area-cell mapping table and performs the actual radio page broadcast over the destination cells.